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## ■ Patent Information in English

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**Publication number** 466858

**Title** Method and apparatus for delivering documents over an electronic network

**Publication Date** 2001/12/01

**Certification\_Number** 146895

**Application Date** 1998/10/01

**Application No.** 087116360

**IPC** H04L-009/00

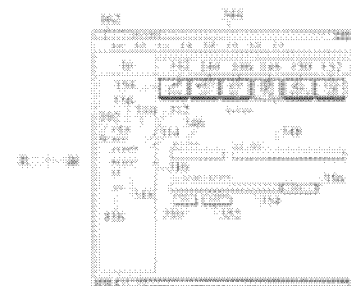
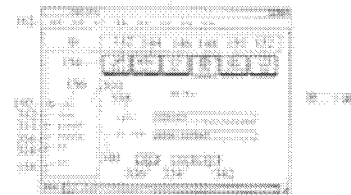
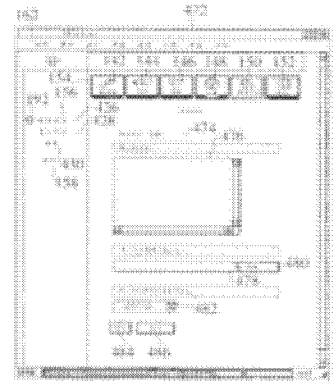
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BANDINI, JEAN-CHRISTOPHE US;  
SHOUP, RANDY US

**Applicant** TUMBLEWEED SOFTWARE CORP. US

**Priority Number** 1997/10/02 US19970957986  
1998/04/09 US19980057966

**Abstract** A method and apparatus are provided for securely delivering documents over an electronic network while preserving document formatting. The invention also provides security that restricts access to the system to an authorized user. A document is sent from a sending computer to a dedicated server, using a send client application. The document is specified for delivery within the send client application, or by clicking and dragging the document onto an appropriate window or icon on the sending computer desktop, or is specified from within a document authoring application. A dedicated server stores the document and forwards an electronic notification to a receiving device. The stored document is downloaded from the dedicated server, using a receive client application, in response to the notification. The receive client application permits the recipient to receive, view, print, and/or manipulate the document. The dedicated server is preferably managed by a configuration user interface having an HTML interface for sending, tracking, accessing account information, managing billings, and managing mail distribution lists. The send client application allows a user to specify document delivery parameters. The parameters may be stored for later modification and/or use. A sender driven certificate enrollment system and methods of its use are also provided, in which a sender controls the generation of a digital certificate that is used to encrypt and send a document to a recipient in a secure manner. The sender compares previously stored recipient information to gathered information from the recipient. If the information matches, the sender transfers key

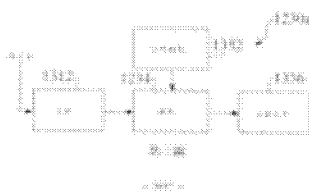
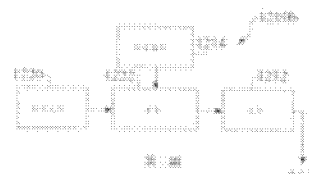
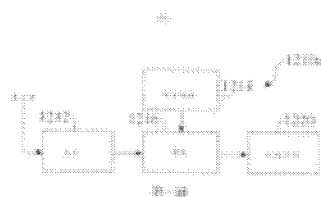
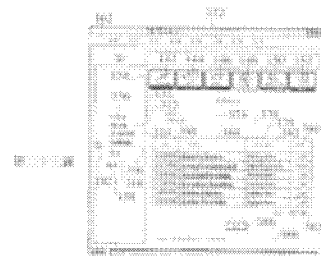
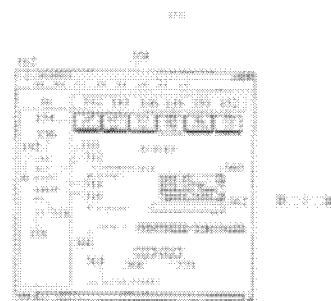
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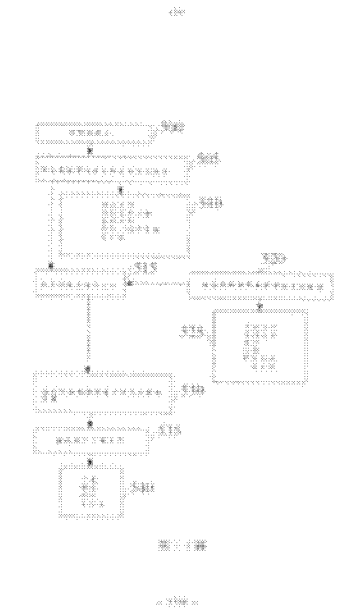
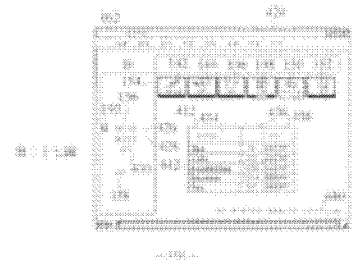
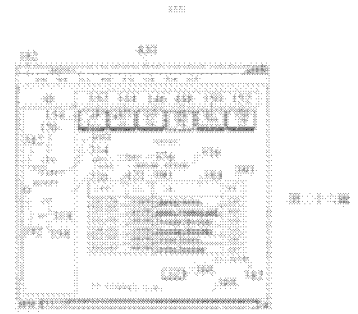


generation software to the recipient, which produces the digital certificate, comprising a public and private key pair. The sender can then use the public key to encrypt and send the document to the recipient, wherein the recipient can use the matching private key to decrypt the document.

#### Patent Right Change

Application number	087116360
Authorization note	No
Qualification right note	No
Transfer Note	No
Inheritance Note	No
Trust note	No
Objection note	No
Exposure Note	No
Invalidation date	
Withdrawal date	
Issue date of patent right	20011201
Due date of patent right	20180930
Due date of annual fee	20081130
Due year of annual fee	007



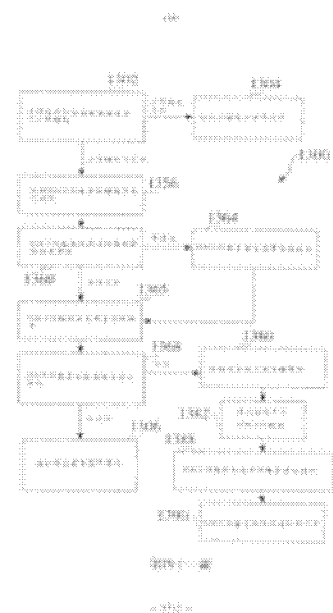
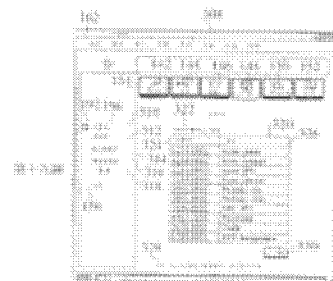
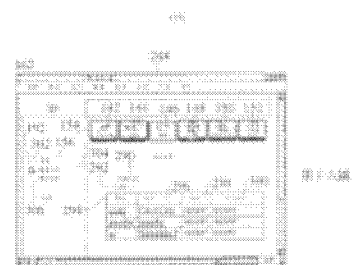


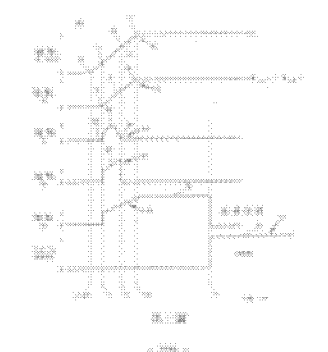
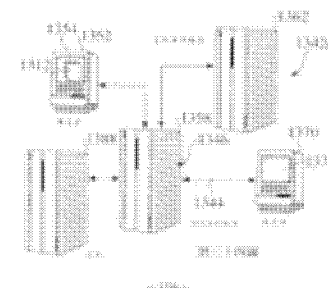

$$A_1 = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \\ 3 & 4 & 5 \end{pmatrix}, \quad A_2 = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \\ 3 & 4 & 5 \end{pmatrix}, \quad A_3 = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \\ 3 & 4 & 5 \end{pmatrix}$$

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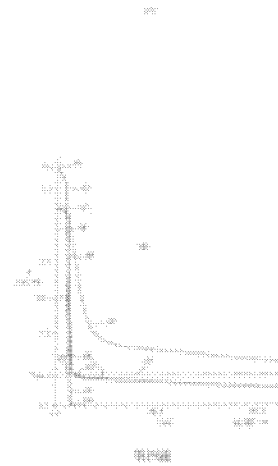


圖 1

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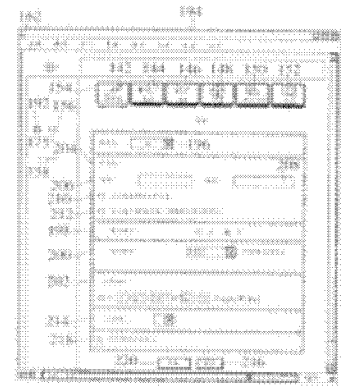
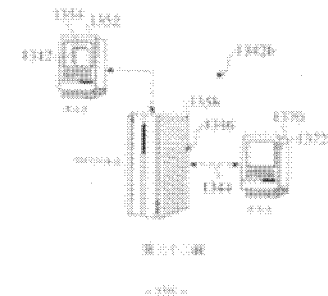
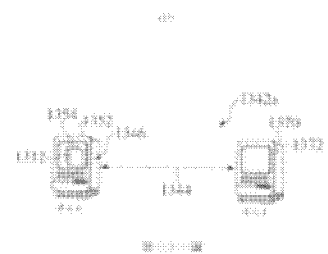
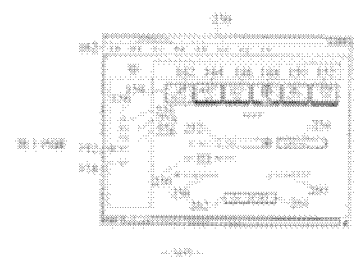
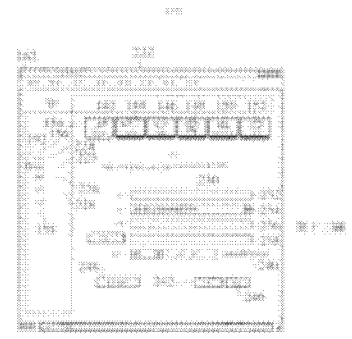
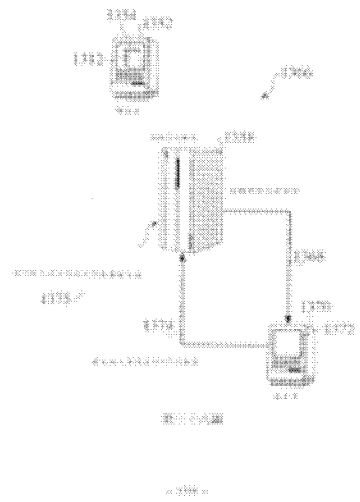
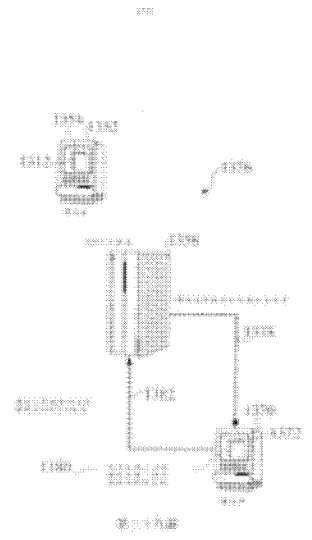


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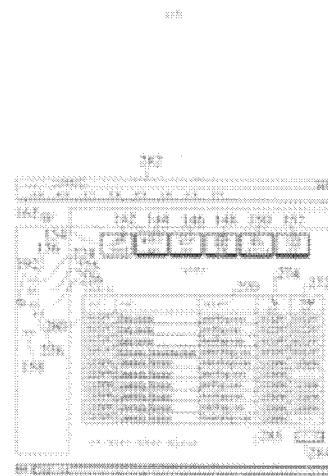


圖 1

圖 1 說明

圖 1



圖 2



圖 3

圖 3 說明

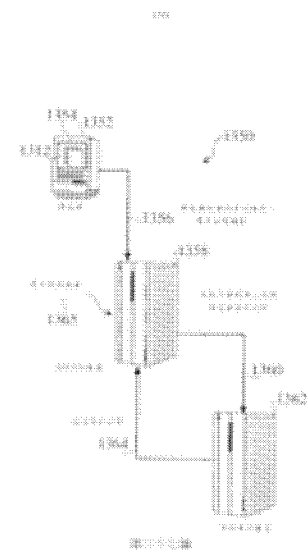


圖 13 系統架構

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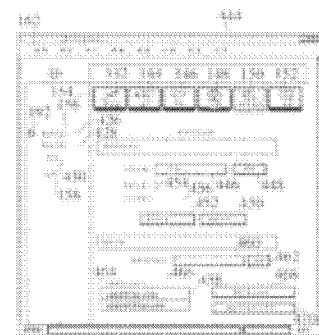


圖 14 系統架構

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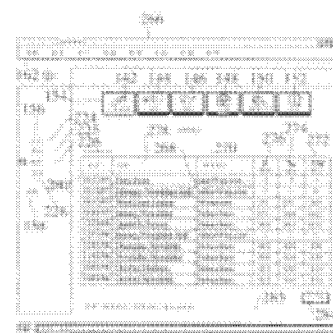


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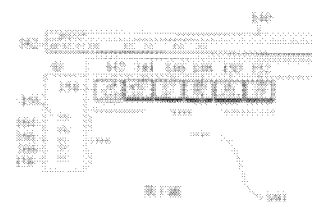


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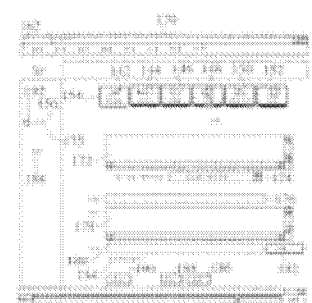


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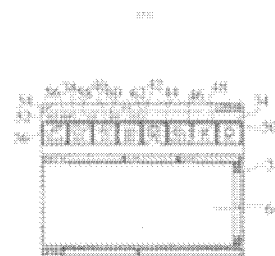


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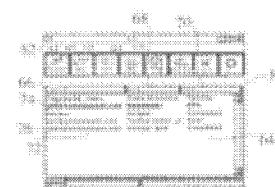


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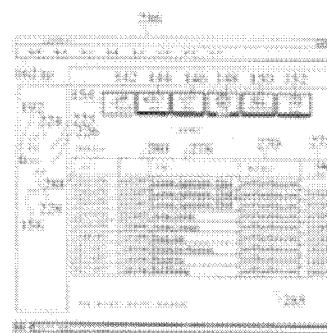


圖 3

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